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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO	
10/601,713	06/20/2003	Takeshi Koizumi	5328-12	7563	
27799	7590 06/03/2005		EXAM	EXAMINER	
COHEN, PONTANI, LIEBERMAN & PAVANE			BAUSCH, SARAE L		
551 FIFTH AT SUITE 1210	VENUE		ART UNIT	PAPER NUMBER	
NEW YORK, NY 10176			1634		

DATE MAILED: 06/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No	<u> </u>	Applicant(s)				
		10/601,713		KOIZUMI ET AL.				
Office Action Summary		Examiner		Art Unit				
		Sarae Bausch		1634				
	The MAILING DATE of this communic		er sheet with the c					
Period fo				on copenacines and cos				
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNIC masions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) appeared for reply is specified above, the maximum stature to reply within the set or extended period for reply within the set or extended pe	ATION. 37 CFR 1.136(a). In no event, hore ication. days, a reply within the statutory motory period will apply and will expir. I, by statute, cause the application	wever, may a reply be tim ninimum of thirty (30) day: e SIX (6) MONTHS from to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication D (35 U.S.C. § 133).	n.			
Status								
1)[Responsive to communication(s) filed	on <u>20 June 2003</u> .						
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-fi	nal.					
3) 🗌	_							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	Claim(s) 1-5 is/are pending in the appl	ication.						
	4a) Of the above claim(s) is/are	withdrawn from conside	eration.					
5) 🗌	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-5</u> is/are rejected.							
	Claim(s) is/are objected to.		•					
8)□	Claim(s) are subject to restriction	on and/or election requir	ement.					
Applicati	on Papers							
9)⊠	The specification is objected to by the	Examiner.						
10)	☐ The drawing(s) filed on is/are: `a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection	on to the drawing(s) be hel	d in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the	e correction is required if t	he drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
11)🛛	The oath or declaration is objected to b	y the Examiner. Note th	e attached Office	Action or form PTO-152.				
Priority u	ınder 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim fo	r foreign priority under 3	5 U.S.C. § 119(a)	-(d) or (f).				
a)[☐ All b)☐ Some * c)☐ None of:		•	., ,,				
	1. Certified copies of the priority do	cuments have been rec	eived.	•				
	2. Certified copies of the priority do	ocuments have been rec	eived in Applicati	on No				
	3. Copies of the certified copies of	the priority documents h	nave been receive	ed in this National Stage				
	application from the Internationa	•	`					
* 5	See the attached detailed Office action	for a list of the certified o	copies not receive	d.				
Attachmen		, -	7 · ~	(DTO, 440)	,			
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTC	4) <u>↓</u>)-948)	Interview Summary Paper No(s)/Mail Da					
3) 🔲 Inform	nation Disclosure Statement(s) (PTO-1449 or PT r No(s)/Mail Date	-O/SB/08) 5) <u>□</u>		atent Application (PTO-152)				
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DETAILED ACTION

1. This action is in response to the papers filed 06/20/2003. Currently, claims 1-5 are pending.

Priority

2. Acknowledgment is made of applicant's prior foreign application, Japan 2002-003912. It is noted that applicants are not claiming priority under 35 U.S.C. 119(a)-(d) based upon an application filed in Japan on 01/10/2002, since the United States application was filed more than twelve months thereafter.

Sequence Rules

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825.

Claim Rejections - 35 USC § 112- Second Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With regard to claims 1-4, the claims are drawn to a process for improving efficiency of

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DNA amplification reaction but not recite any active process steps. Accordingly, it is unclear as to whether the claim is intended to be limited to methods for improving efficiency of DNA amplification or just a primer with a specific G and C content and a label. If applicants want to claim a process, applicants should amend the claim to indicate active steps in the process. If applicant wants to claim a product, applicants should amend the claim to recite a product.

With regard to claim 5, the claims are drawn to a process for improving hybridization specificity of an oligonucleotide to a DNA, but not recite any active process steps. Accordingly, it is unclear as to whether the claim is intended to be limited to methods for process for improving hybridization specificity or just a primer with a specific G and C content and a label. If applicants want to claim a process, applicants should amend the claim to indicate active steps in the process. If applicant wants to claim a product, applicants should amend the claim to recite a product.

5. Claims 1-5 provide for the use of DNA amplification and DNA hybridization, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claims 1-5 are rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products*, *Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by (J. Virology, Dec 1993, p. 7118-7124).

With regard to claim 1, Sorensen et al. teach a primer that has a total G and C content of 53% with a biotin coupled to the 5' end of the primer (see figure 1A and 1C).

With regard to claim 2, Sorensen et al. teach a primer that has a total length of 30 bases. Sorensen et al. teach a primer that has a region of at least four bases and combined G and C content of 80%, CTGGG, the last five bases of the primer sequence. Sorensen et al. teach a primer that has a quantity of a more numerous base of A and T that accounts for 83% of a combined content of A and T, GAATTC. (see primer 1, figure 1C).

With regard to claim 3, Sorensen et al. teach a simple method without additional or intervening procedures that permits amplification and sequencing of unknown cellular DNA flanking integrated proviruses (see 1st column, 3rd paragraph, page 7118).

With regard to claims 4 and 5, Sorensen et al. teach a method that comprises PCR using a biotinylated provirus-specific primer (instant claim 5) and a partly degenerate arbitrary primer (instant claim 4) with a fixed 3' end which will hybridize within a statistically defined range in the cellular DNA flanking the provirus (see 1st column, 3rd paragraph, page 7118).

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Conclusion

7. No claims allowable over the art.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sarae Bausch whose telephone number is (571) 272-2912. The examiner can normally be reached on M-F 10am-7pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Jones can be reached on (571) 272-0745. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (866) 217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application

or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Sarae Bausch, PhD.

Examiner

s Art Unit 1634

Supervisory Patent Examiner
Technology Center 1600